#### Mission of the **National Park** Service

The National Park Service preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations. The Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.

#### **Mission of Indiana Dunes National** Lakeshore

The mission of Indiana Dunes National Lakeshore is to preserve for the educational, inspirational, and recreational use of the public certain portions of the Indiana Dunes and other areas of scenic, scientific, and historic interest and recreational value in the state of Indiana.

#### **Contact Information**

**ADDRESS** 

Indiana Dunes National Lakeshore 1100 N. Mineral Springs Rd. Porter, IN 46304

219-926-7561 visitor information

E-MAIL

indu\_communications@nps.gov

**WEBSITE** 

page 6

www.nps.gov/indu

1-800-PARKTIP (727-5847) emergencies, criminal activities, or suspicious activity

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## The Paul H. Douglas Center Reopens

Join the employees of Indiana Dunes National Lakeshore on June 27 from 1 p.m. - 4 p.m. for the grand re-opening of the Paul H. Douglas Center for Environmental Education in Miller. While the Douglas Center was not really closed, it has received a new look and new staff to warrant this special day.

Over the spring, contractors have been developing new exhibits, flooring, and furnishings for the entire lobby area. Murals, educational panels, and sound tubes are just a few of the new components in the lobby area to entice and educate visitors.

Along with the new look, the Douglas Center will be home to three of the national lakeshore educators. These rangers will be on hand for the grand re-opening. The goal of moving staff and investing in this center is to make this area a portal to the national lakeshore.

During July and August, rangers will offer family programs on weekends at the Douglas Center. On Saturdays, between 10 a.m. and 2 p.m., bring your picnic and join a park ranger for lunch and a hike through Miller Woods. On Sundays, between 1 p.m. and 4 p.m., visit during an Open House to learn more about your neighborhood national park.

You can also stop by the Douglas Center Monday through Friday and knock on the door to see if we are home. We are looking for volunteers to assist with staffing the front desk, answering phones, and helping



to care for the live reptiles and amphibians.

The Douglas Center has always been a hub for teachers and school groups, and that will not change with the new staffing situation. A week long institute entitled, "Field Techniques for Science Exploration" will be offered June 15-19 in partnership with the Dunes Learning Center. Each day's institute will have a different focus: Great Lakes issues, language arts, visual arts, restoration of prairies and savannahs, and restoration of wetlands. Join us for one day or all five. To register for the field course, contact the Dunes Learning Center at 219-395-9555.

The Douglas Center staff members are excited about moving back into the community and look forward to your visits. Feel free to contact them at 219-938-8221 for more information on programs and possible collaborations.

## Have a Safe Visit by Costa Dillon, Superintendent

National parks are among the safest places you can visit. The vast majority of the 300 million visitors to national parks every year go home with wonderful memories of their visits. We want you and every visitor to Indiana Dunes National Lakeshore to also return home safe.

Most injuries in national parks are from automobile accidents, with falls and drowning as the next most common cause of injuries. Indiana Dunes National Lakeshore is no exception to these statistics. Roads in and around the lakeshore are public roads and often filled with commuter traffic, delivery trucks, and industrial vehicles. Multiple railroad crossings also dot the park. Be alert when driving and never, ever, go around a railroad guard.

On the beach, your safety is up to you, and you should make your choices for swimming based upon your own abilities, the weather, and the condition of the water. Indiana Dunes National Lakeshore has 15 miles of shoreline, and lifeguards are only available in daylight hours in the summer at a small portion of West Beach and at Indiana Dunes State Park. The National Park Service does not close or open beaches for weather or water quality reasons; they are always available for public use during park hours. The majority of the shore is not regularly patrolled or under the observation of rangers or lifeguards.

Sandbars, rip currents, and other water conditions can challenge any swimmer and can be particularly hazardous for children. Water quality often suffers after heavy rains when sewage is washed into the lake from shoreline communities. You should watch local news, check websites, and talk to park personnel before entering the water if you are at all unsure of conditions. Because water quality testing for E.coli and other contaminants takes more than 24-hours, it is impossible to report up-to-the minute water quality conditions.

Since 1995 more than 7.5 million visitors safely used the shoreline at Indiana Dunes National Lakeshore. Unfortunately, 12 persons drowned in that time. This may not seem like much over 14 years, but any drowning is too many. Seek information, heed advice, take care, and follow safety instructions, and you too will have a safe day in the park.

#### Ask the Superintendent

Indiana Dunes National Lakeshore stretches across 3 counties and is located within 15 cities and towns. Almost 2 million visits are made to the park each year. If you would like to know more about this national park, how it operates, or what is in store for the future, you are invited to attend one of the "Ask the Superintendent" sessions that will be held each month this summer. The first session will be at the Portage Lakefront and Riverwalk pavilion at 2:00-3:00 PM, Saturday, June 13, 2009. For future dates and sites, please see the park website www.nps.gov/indu.

## Park Information

## Protect Your Park



Walk only on designated trails to prevent damage to park resources and minimize erosion.

*Dispose of your litter* and recycle items in marked containers.

Leave all natural and cultural items as you find them to preserve the present and past. Collecting items such as shells, fossils, rocks, and wildflowers is prohibited.

**Respect all wildlife** from a safe distance. Never feed wild animals. Feeding wild animals is dangerous, harms their health, and alters their natural behaviors.

Avoid introducing or transporting non-native species. For example, don't bring firewood to the park. Exotic insect pests that live in firewood can kill native trees. Burn all firewood; take no firewood home.

#### Park Hours

Unless otherwise posted, the public areas of the park are open from sunrise to sunset. Most parking areas are open from 7:00 a.m. until dusk. Lake View parking area remains open until 11:00 p.m.

#### Visitor Center



Located on SR 49, between U.S. Hwy. 20 and Interstate 94 near Chesterton, Indiana, it is open daily 8:00 a.m. - 6:00 p.m. An introductory park movie is available upon request.

## **Top Visitor Questions**



#### Where is the beach?

The 15-mile beach can be accessed from many different locations. There are access points located near the intersection of Porter County Line Road and Michigan Street (Mt. Baldy), north end of Central Avenue, Lake Front Drive at Lake View, intersection of West Lake Front Avenue and Dunbar Avenue, north end of East State Park Road, north end of Waverly Road, Portage Lakefront and Riverwalk (from Hwy. 12 take Hwy. 249 south and follow park signs), and West Beach (north on North County Line Road). West Beach has 600 parking spaces; other parking lots have limited parking. Please reference map located on page 8.

#### 2

#### Where may I climb a dune?

Mount Baldy is the only dune where climbing is allowed in the national lakeshore. You may scale the dune from the lakeside (windward side) to the summit. Climbing is prohibited on the side adjacent to the parking lot because it accelerates the movement of the dune. Please follow the trail from the parking lot, which leads around the side of the dune to a juncture that offers a choice between the summit or beach trails.

West Beach offers a spectacular overlook on the one-mile West Beach Succession Trail. Please stay on designated trails to protect sensitive dune species.



Do you close the beach when high waves are present or e-coli levels are high?

No. The national lakeshore does not close its beach regardless of water conditions. Risks are inherent in all natural areas. During summer months lifeguards are stationed at West Beach. Lifeguards are not present at other locations of the beach.

Call 219-926-7561 followed by prompt #2 for information regarding e-coli levels.



How do I find out about beach regulations?

Just look for this sign on the beach.

### Regulations

diana Dunes Netional Lakeshore Itional Park Service 5. Department of the Interior



Hours — 7:00 am to Dusk



No Pets on Beach



No Glass
No Fires



No Alcoholic Beverages

No Lifeguard on Duty

### 5

#### Do you have a campground?

Yes. The Dunewood Campground is open April 1 through October 31 and is located at the intersection of U.S. 12 and Broadway. Its 79 campsites are available on a first-come, first-served basis. The restrooms are centrally located and have showers. Electrical hookups are not available; however, the campground has a dump station. Please self-register by depositing the exact camping fee of \$15.00 per night. Use firewood from local suppliers to help prevent the spread of invasive insects. Alcohol is strictly prohibited.



## May I take my pet with me for a stroll or hike?

Yes. The national lakeshore has over 40 miles of hiking trails. Pets restrained by a leash are permitted on beaches east of the Kemil access point and on most park trails. However, pets are not permitted on the beach west of the state park. The Ly-co-ki-we trail (intersection

of Hwy. 20 and School House Road) is open for horseback riding March 16 through December 14.

Please hike with others and stay on designated trails for your protection and that of park resources. Trail maps are available at the Indiana Dunes Visitor Center, which is located at the intersection of U.S. Hwy. 20 and Indiana Hwy. 49 in Porter, IN.



#### May I launch my boat and fish?

The park does not have a boat launch. Personal motorized watercraft (Jet Skis and WaveRunners) are prohibited. However, you may launch your kayak (or other non-motorized watercraft) at locations other than at West Beach. An Indiana state fishing license is required to fish.



## How do I reserve an environmental education program?

Teachers and youth group leaders should call Christy Gerlach at 219-938-8221 to arrange for a free ranger-led program. These programs are conducted at the park's Paul H. Douglas Center for Environmental Education located in Garry/Miller, Indiana, and focus on the park's resource issues.



#### Do you have a Junior Ranger Program?



Yes! Stop by the park's visitor center and ask a ranger to help you select the junior ranger program that best fits your visit. A Beachcombers program is popular with families

spending just a few hours on the beach. A more comprehensive program is a favorite among those camping in the park. Other junior ranger programs are offered during special events. All programs are free. Children completing the junior ranger program earn a Junior Ranger patch. Program materials are available at the visitor center and are downloadable at www.nps.gov/indu/forkids. If you encounter a roving ranger on the beach, ask him or her about the program. Rangers often carry junior ranger booklets and patches with them for your convenience.

## 10

## What is Portage Lakefront and Riverwalk, and how do I get there?

This site is part of Indiana Dunes National Lakeshore and has a riverwalk, a fishing pier, parking lots, and an environmentally-friendly pavilion. The City of Portage operates and maintains this site through a partnership with the National Park Service. Portage Lakefront and Riverwalk can be accessed by following Hwy. 249 north from Hwy. 20. Follow the park signs.



## How can I volunteer at the national lakeshore?

Start by contacting Lynda Lancaster, the Volunteers-In-Park program manager at lynda\_lancaster@nps.gov or 219-395-1682. We are looking for volunteers on Mondays in July or August to help maintain trails, clean foredunes, and do some landscaping around buildings. We also have volunteer openings at the visitor center in Porter and at the Paul H. Douglas Center for Environmental Education in Gary/Miller.



# Ranger-Guided Programs

DATE & TIME	PROGRAM	DESCRIPTION	LOCATION	
Daily				
	Child of the Northwest Wind	Watch this 11-minute park orientation video to learn about the places to see and activities to do at the national lakeshore.	Indiana Dunes National Lakeshore Visitor Center	
	Junior Rangers by the Lake	Explore the lakefront while enjoying the beach. Children can complete resource related activities and earn a Junior Ranger patch. Just look for a roving ranger on the beach for an activity guide.	West Beach and Mt. Baldy	
Fridays				
June 19, July 17, and August 21 7:30 p.m. — 9:00 p.m.	Music Heritage Series	Local musicians help sustain the culture of the Duneland region by sharing historic tunes.	Indiana Dunes National Lakeshore Visitor Center	
Saturdays				
Julie / tugi	Fun at the Visitor Center	Join a ranger in the Visitor Center's activity room for an afternoon of kid's nature activities and stories.	Indiana Dunes National Lakeshore Visitor Center	
June 13, July 11, Aug. 8 only 9:00 a.m.— 12:00 p.m.	Summer Stewardship Days	Join a ranger and lend a hand to help improve "Your Neighborhood National Park" during this unique opportunity at Indiana Dunes National Lakeshore.	Meet at the Indiana Dunes National Lakeshore Visitor Center and carpool to the site.	
, , , <u>-</u>	Pinhook Bog Open House	Take a self-guided hike into Indiana's only "true" quaking bog. Rangers along the trail will point out other features and carnivorous plants.	Pinhook Bog Parking Lot	
July   8:00 p.m. — 9:00 p.m.	Discover your Neighborhood National Park	Join a ranger around the campfire and learn about the diversity of resources and activities that can be found at the national lakeshore.	Dunewood Campground Amphitheater	
July 11 — Sept. 5 10:00 a.m. — 2:00 p.m.	Picnic at Miller Woods	Bring your own picnic and join a ranger for lunch and a hike through Miller Woods.	Paul H. Douglas Center for Environmental Education	
July 11, July 25, 1149. 15 51119	Junior Wildland Firefighter Program	Meet the park's fire crew and learn about their jobs and equipment. After this hands-on program, children will receive their very own Junior Wildland firefighter activity book and a Junior Wildland firefighter patch.	Dunewood Campground Amphitheater	
<b>y</b>	Evening Hike in the Savannah	Join a ranger for an easy hike through the oak savannah in Miller Woods. Use your senses as the nocturnal animals do.	Paul H. Douglas Center for Environmental Education	
Aug. 15 only 1:00 p.m. — 3:00 p.m.	Fire in the Oaks	Come on a two hour hike to learn about the history of savannahs, the role of fire, and how they differ from other habitats.	Paul H. Douglas Center for Environmental Education	
Sundays				
Julie 7 lag.	Fun at the Visitor Center	Join a ranger in the Visitor Center's activity room for an afternoon of kid's nature activities and stories.	Indiana Dunes National Lakeshore Visitor Center	
12:00 p.m. — 3:00 p.m.	An Afternoon at Chellberg Farm (Open House)	During this open house, rangers will share the history of the site as you tour the historic buildings.	Chellberg Farm	
	Open House at the Douglas Center	During this open house, rangers will offer a variety of activities for the whole family.	Paul H. Douglas Center for Environmental Education	
Special Events				
	Help Restore Mnoke Prairie	Join in and help by either planting prairie plants or cutting and removing woody species. Gloves, tools, and eye protection (if cutting) will be provided. Wear long pants, close toe shoes, and be prepared to walk through thorny brush. Bring sunscreen, water, and a hat - it may be sunny! Limited to 30 people; you must call (219) 395-8914 to reserve a spot.	Meet at the south end of Howe Road (Little Calumet River Trailhead)	
June 27 1:00 p.m. — 4:00 p.m.	Grand re-opening of Paul H. Douglas Center for Environmental Education	Join the national lakeshore staff for a festive open house with presentations, hikes, and family-friendly activities throughout the afternoon.	Paul H. Douglas Center for Environmental Education	
Sunday	Midsummer Celebration	Celebrate the summer solstice with Scandinavian music and dance and learn how you can help preserve the cultural landscape at Chellberg Farm.	Chellberg Farm	
	Night Sky Conservation	Watch the annual Perseids Meteor Shower while a ranger explains how everyone can help in the conservation of the night sky.	West Beach Parking Lot	

# Invasive Plant Species Threaten Indiana Dunes National Lakeshore

The control of invasive species at Indiana Dunes National Lakeshore is rooted in federal law. Congress designated Indiana Dunes National Lakeshore as a unit of the National Park System on November 5, 1966 (Public Law 89-761).

...to preserve for the educational, inspirational, and recreational use of the public certain portions of the Indiana Dunes and other areas of scenic, scientific, and historic interest and recreational value in the State of Indiana.... In order that the lakeshore shall be permanently preserved in its present state, no development or plan for the convenience of visitors shall be undertaken therein which would be incompatible with the preservation of the unique flora and fauna or the physiographic conditions now prevailing...

Indiana Dunes National Lakeshore, although relatively small and flat, ranks seventh for diversity amongst the National Park System's 394 units. In order to maintain the park's incredible diversity of healthy native plant species, invasive species must be controlled.

#### What is an invasive plant?

Here, the term invasive plant refers to a plant that is not native to Indiana Dunes National Lakeshore, and has negative effects on the economy, environment, and/or human health. However, not all plants introduced from other places are harmful. The term invasive is reserved for the most aggressive plant species that grow and reproduce rapidly, causing major changes to the areas where they become established.

When invasive plants win, native plants and wildlife lose, and so does the people who enjoy them.

#### What is the problem?

Invasive plants are a major threat on a national scale. Across the United States invasive plants are estimated to occur on 7 million acres of national park lands. At least 1.5 million acres are severely infested.

Within its mere 10,900 acres, Indiana Dunes National Lakeshore has 1,494 species of vascular plants. Of these, 20% (304) of the park's vascular plants are not native to the lakeshore. Thirty-two (32) are well established and pose real threats.

Noel Pavlovic, an ecologist with the U.S. Geological Survey, has been investigating the distribution and abundance of non-native plant species, using 900 plots within the national lakeshore's boundaries. They determined that the probability of finding invasive species in park is greatest in old field habitats, followed by edge habitats, then pine plantations, and finally forests. In essence, the more people have affected a habitat, the more likely it is that invasive species will move in.

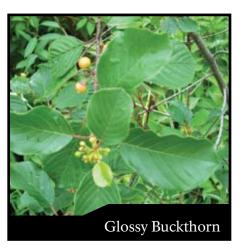
Nationally, this problem of invasive species is an expensive one. The economic cost of invasive plants is estimated at more than \$34 billion per year. Management costs escalate when invasive populations are allowed to spread.

#### Why Should You Care?

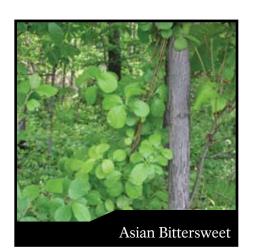
Invasive plants can affect your ability to enjoy Indiana Dunes National Lakeshore and other public places. Hikers, cyclists, and horseback riders all enjoy well-maintained trails. Invasive plants can grow over trails to the point that the path cannot be followed or can be difficult to navigate. Dried and dying knapweed plants can catch in bicycle chains. Invasive plants can also degrade the natural scenic beauty of the park by displacing attractive native flowers with single-species stands. Spiny or dense invasive shrubs can overtake camping spots, making it difficult to find a good spot for a tent. Some invasive plants can effect on your health. The sap from leafy spurge causes eye irritation, and the plant is toxic to horses. Spines on invasive thistles can become lodged in skin and cause irritation. Invasive plants with spiny seed balls, hitchhike on fur, which increases the need to groom the horse or family dog after a hike.



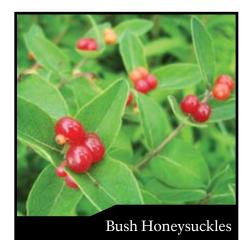
The purple loosestrife can affect wildlife viewing. This plant is capable of replacing diverse native plant communities with just a single species, which in turns reduces the qualities of wildlife habitat.



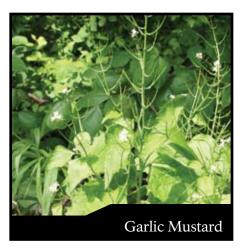
The glossy buckthorn is an invader of forested areas. Their fruits are consumed by a variety of birds and mammals, which aid in their dispersal. These shrubs form dense thickets that prevent woody seedling regeneration.



The vine of the Asian bittersweet which closely resembles our native bittersweet, can damage or kill trees and shrubs. The vine constricts sap flow, weakening limbs and trunks and making them more susceptible to wind and ice damage.



Bush honeysuckles, such as the amur honeysuckle, prevent regeneration of forest trees and herbs, and are a poor habitat for nesting birds. They are difficult to control once they have reached high densities, so it is important to control new infestations as quickly as possible.



The seeds of garlic mustard (numbering up to 3,000 per plant) can survive for up to 10 years in the soil, creating a lasting problem at invaded sites. This plant is the most common invasive plant in the dune, and it alters the chemistry of the soils where it grows by adding chemicals that prevent the growth of other plant species.

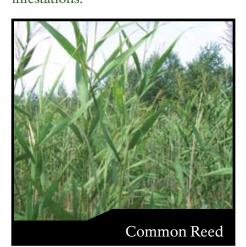


Crown vetch is an emerging threat to the national lakeshore. Infestations of this plant reduce the abundance of native plants and the wildlife species that depend on them. This plant alters soil chemistry by adding nitrogen to the soil, which might affect invaded areas even after the species is removed.





Japanese knotweed is remarkably resilient, tolerating floods, drought, shade, high temperatures, and high salinity. Floods can further the spread of this species by carrying plant fragments downstream, which can root and sprout, forming new infestations.



Common reed reduces the quality of the habitat for aquatic insects that fish and migratory waterfowl rely on for food. Although common reed is actually native to the Midwest, the aggressive, invasive varieties are nonnative in origin.



Spotted knapweed is especially troublesome because of its ability to release toxic chemicals from its roots. These chemicals reduce growth and germination of neighboring plants.



Canada thistle is an aggressive invader in prairies, savannas, and dunes. This species competes with other plants for water and nutrients, causing reductions in plant diversity.

Anglers and boaters should also care about invaders. Invasive plants can harm fish, and thick stands of submerged and floating aquatic invasive plants can impede navigation. Finally, everyone should care when invasive plants lead to flooding and soil erosion, causing poorer water quality and silted spawning beds.

#### What is the Park Doing?

The park's resource managers and volunteers are treating 32 non-native species that are well established and are posing threats in areas where high quality native species exist. They have found an additional 22 invasive species in small numbers and are treating these species using an early detection/rapid response process. They are also monitoring 29 other invasive species.

Since 2004, 1,000 acres have been canvassed and treated. Volunteers have contributed more than 7,000 hours towards the control of invasive species just in the past two years. In 2008, for the first time, resource managers treated these invasive species—cypress spurge, baby's breath, houndstongue, mugwort, and Japanese hop. Park staff and surrounding landowners are forming a Cooperative Weed Management Area to control invasive plants on properties adjacent to the park.

#### How Can You Help?

- Avoid using invasive species in your garden.
- Learn to recognize invasive plant infestations and avoid passing through them.
- Drive on established roads and ride or hike on designated trails.
- Check for seeds or plant parts and clean vehicles, boats, equipment, boots, animals, and gear between trips. Dispose of seeds in a plastic bag in a trash can.
- Always use weed-free hay and feed for your animals.
- Dispose of unwanted bait in the trash, and never release plants and animals into a body of water unless they came from that body of
- Participate in one of the park stewardship days

Call Laura Thompson at 219-395-1531 to volunteer to help inventory or control invasive plants at Indiana Dunes National Lakeshore. Early detection and eradication of small infestations and prevention of new infestations are the most cost-effective ways to manage invasive plants!

The primary source of information contained in this article came from the Midwest Invasive Plant Network publication, Why Should I Care About Invasive Plants.

### Indiana Dunes National Lakeshore Non-native Plants of Concern

Musk thistle

Crown vetch

Houndstongue

Common teasel

Cypress spurge

Japanese hops

Yellow iris

Motherwort

Scotch pine

White poplar

Bristly locust

Bouncing bet

Siberian elm

Periwinkle

bush

Lombardi poplar

European cranberry

 $Common\ privet$ 

White mulberry

Common baby's breath

Eurasian watermilfoil

Leafy spurge

#### Established within INDU (Current Threats to Natural Resources)

Acer platanoides Ailanthus altissima Alliaria petiolata Artemisia vulgaris Berberis thunbergii Celastrus orbiculatus Centaurea maculosa Cirsium arvense Cirsium vulgar Eleagnus angustifolia Eleagnus umbellata Euonymus alatus Helianthus petiolaris Hesperis matronalis Holcus lanatus Leymus arenarius Lonicera tatarica L. tatarica hybrids Lonicera japonica Lonicera maackii Lysimachia nummularia

Norway maple Tree of heaven Garlic mustard Mugwort Japanese barberry Oriental bittersweet Spotted knapweed Canada thistle Bull thistle Russian olive Autumn olive Burning bush Petioled sunflower Dame's rocket Velvet grass Lyme grass Tartarian honeysuckle Hybrid honeysuckles Japanese honeysuckle Amur honeysuckle Moneywort Purple loosestrife Lythrum salicaria Yellow sweet clover Melilotus officinalis Phalaris arundinacea Reed canary grass Phragmites australis Common reed Japanese knotweed Polygonum cuspidatum Rhamnus cathartica Common buckthorn Rhamnus frangula Glossy buckthorn Robinia pseudoacacia Black locust Rosa multiflora Multiflora rose Typha angustifolia Narrow-leaved cattail Typha x glauca Hybrid cattail

#### Present within INDU (Emerging Threats to Natural Resources or Extent Unknown) European alder

Carduus nutans Coronilla varia Cynoglossum officinale Dipsacus sylvestris Euphorbia cyparissias Euphorbia esula Gypsophila paniculata Humulus japonicus Iris pseudacorus Leonurus cardiaca Ligustrum vulgare Morus alba Myriophyllum spicatum Pinus sylvestris Populus alba Populus nigra Robinia hispida Saponaria officinalis Ulmus pumila Vinca minor Viburnum opulus

> Brown = UplandGreen = Wet or Wetland Blue = Aquatic

#### Not Currently Recorded within INDU (Potential Threats to Natural Resources)

Butomus umbellatus Callitriche stagnalis Crassula helmsii Cynanchum louiseae Cynanchum rossicum Dioscorea oppositifolia Dipsacus laciniatus Egeria densa Eichhornia crassipes Glyceria maxima Heracleum mantegazzianum Hydrilla verticillata Hydrocharis morsus-ranae Hygrophila polysperma Lespedeza cuneata Marsilea quadrifolia Microstegium vimineum Miscanthus sinensus Myriophyllum aquaticum Najas minor Nymphoides peltata Pistia stratiotes Polygonum perfoliatum Pueraria montana Pyrus calleryana Torilis japonica Trapa natans Quercus acutissima Solidago sempervirens

Flowering rush Pond water-starwort Swamp stone crop Black swallow-wort Pale swallow-wort Chinese yam Cut-leaved teasel Brazilian waterweed Water hyacinth Reed manna grass Giant hogweed Hydrilla European frogbit Indian swampweed Silky bush clover European waterclover Japanese stilt grass Chinese silver grass Parrot feather Brittle waternymph Yellow floating heart Water lettuce Mile-a-minute weed Kudzu Bradford pear Japanese hedge parsley Water chestnut Sawtooth oak Seaside goldenrod

# Park Safety Tips

#### Things to Keep You Safe in Lake Michigan

Entering Lake Michigan is a lot different than splashing in your local pool: it's serious business! Wind driven waves can quickly create dangerous conditions that pose a severe threat to even the most expert of swimmers. People drown in the lake every year. Don't let your visit end in tragedy.

If there are whitecaps on the lake, the water conditions are too dangerous for swimming or wading anywhere along the 15-mile shoreline. Steep, uneven waves can knock you off your feet and tire you out before rescuers can help. Rip currents can sweep you away, even from shallow water.

Lake Michigan is a natural environment. Sandbars, steep drop-offs, uneven bottom and debris all combine to make footing uneven and sometimes dangerous. Sandbars entice poor or non-swimmers to venture far from shore. Waves sometimes knock the unwary off the sandbar into much deeper water, occasionally leading to tragedy. Children and poor swimmers are particularly vulnerable to the sandbars.

Lake Michigan, like all bodies of water, is susceptible to contamination by natural and human created bacteria. When concentrations are high, these bacteria can pose a threat to your health. When "No Swimming" advisories are posted, heed this warning and enjoy the lake from the beach. Even on clear days, you should rinse off with fresh water after swimming.

#### Things to Keep You Safe in the Park

Insect repellants work great to keep biting bugs away from you. Staying out of the woods during the very early morning or around dusk will also limit your exposure to pesky mosquitoes. When you go exploring in the woods, you can keep ticks at bay by wearing long sleeve shirts and pants, with cuffs closed and legs tucked into your socks.

Bees, yellow jackets, spiders, snakes, and other critters are happy to leave you alone if you do the same. No amount of repellent will keep creatures from fighting back when you stick your hand into their home. When exploring the park, don't put your hand anywhere you can't see.

## Danger

People drown here each year. Be careful!

If there are whitecaps on the lake, the water conditions are too dangerous for swimming or wading.

Sandbars, steep drop-offs, uneven bottom, and debris all combine to make footing uneven and sometimes dangerous.

In case of an emergency or to report a crime, call the national lakeshore emergency line at:
1-800-PARKTIP (727-5847)

## Summer Beach Parking

Parking Lots	Capacity	Directions from Indiana Dunes National Lakeshore Visitor Center	
West Beach	596 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 and proceed west to County Line Road. Turn north on County Line Road and follow signs. Lifeguards are on duty. Fees are charged from Memorial Day through Labor Day - \$6.00/car and \$30.00/bus.	
Portage Lakefront and Riverwalk Pavilion	100 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 west. Travel west to JCT 249 south, which is the first left after the the overpass. Turn left on Hwy. 249 south and stay in the right-hand lane to traffic light. Turn right at traffic light and follow the park signs.	
Waverly Road Access Point (Porter)	66 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 west to Waverly Road, and turn north.	
Kemil Avenue	81 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 east to Kemil Road (East State Park Road), and turn north.	
Dunbar Avenue	26 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 east to Kemil Road (East State Park Road), and turn north. At the dead end, turn east to Dunbar	
Lake View	40 vehicles	Follow Indiana Hwy. 49 north to Hwy. 12 east to Kemil Road (East State Park Road), and turn north. At the dead end, turn east to Lakeview along this road.	
Central Avenue	70 vehicles	Follow Indiana Hwy. 49 north to Hwy. 20 east to Hwy. 520 north. Follow to Indiana Hwy. 12 east to Central Avenue and turn north.	
Mt Baldy	120 vehicles	Follow Indiana Hwy. 49 north to Hwy. 20 east to Hwy. 520 north. Follow to Indiana Hwy. 12 east to the Mt. Baldy access point.	

#### What to do if the parking lots are full

Smaller parking lots fill quickly during the summer months, especially on weekends. The large parking lot at West Beach, with 600 spaces, rarely fills. You will be ticketed if you do not use a designated parking space. Parking along the roads is not authorized. Always lock your vehicle, and leave valuables in your trunk or at home.

## Park Partners

#### **Friends of Indiana Dunes**

### FRIENDS OF Indiana Dunes

Our mission is to enhance and foster understanding, appreciation and enjoyment of the Indiana Dunes through financial and volunteer support of the state and national parks.

Friends of Indiana Dunes are just that, individuals who care about the Indiana Dunes. The national lakeshore and the State Park are priceless natural resources in the midst of the heartland's largest metropolitan area. The Friends help sponsor various events during the year to benefit these parks.

#### They also:

- -Purchase books and magazines for the state park's Bergendahl Memorial Library.
- -Sponsor outreach programs for children, so that they might develop greater appreciation of and respect for nature.
- -Host speakers on a variety of topics related to natural and cultural history.
- -Purchase interpretive items for the parks.
- -Fund underpriviledged children to attend the Dunes Learning Center.

Friends of Indiana Dunes P.O. Box 166 Beverly Shores, IN 46301-0166 219-395-1824 www.friendsofindianadunes.org



#### **Historic Landmarks Foundation of Indiana**



Our mission is to lead and assist individuals, organizations and communities in preserving and revitalizing endangered landmarks through education, advocacy, and financial support to enrich contemporary life and leave a legacy of landmarks.

The Historic Landmarks Foundation of Indiana (HLFI), a not-for-profit preservation organization, placed the national lakeshore's Century of Progress houses on the "Ten Most Endangered Sites in Indiana" list in 1993. The national lakeshore and HLFI entered into an agreement in 1996 to protect and maintain the houses through a residential leasing program. The leasing program, that has grown to include two Lustron houses and two sites within the proposed Swedish Heritage District, is the primary catalyst for the long-term preservation of these resources.

HLFI has always respected and upheld the mission of the national lakeshore and National Park Service. Their staff works closely with the national lakeshore's cultural resource staff on planning, coordinating, and overseeing the rehabilitation of the park's cultural resources that are in the residential leasing program. For more information contact:

Historic Landmarks Foundation of Indiana 340 West Michigan Street Indianapolis, IN 46202 1-800-450-4534 www.historiclandmarks.org

#### Other Partners

Chesterton Art Center Field Station Cooperative Friends of Indiana Dunes Indiana Department of Natural Resources-Nature Preserves and Coastal Program **Dunes Learning Center** Porter County Convention, Recreation, and Visitor Commission Purdue University Field Station Save the Dunes Conservation Fund Shirley Heinze Land Trust U.S.G.S. Lake Michigan Ecological Research Station

Indiana Nature Conservancy

### **Indiana Dunes State Park**

**Division of State Parks and Reservoirs** 

Our mission is to manage and interpret Indiana Dunes State Park's wildlife and natural and cultural resources, provide for compatible recreational opportunities, and sustain the integrity of these resources for future generations.

Established in 1925, Indiana Dunes State Park is one of 24 Indiana state parks administered by the Department of Natural Resources and Indiana Division of State Parks and Reservoirs. The state park contains some of the most diverse flora and fauna of the Midwest. It is also renowned throughout the Midwest for its birding.

The state park offers:

- a new park entrance,
- a year-round campground,
- swimming beach with lifeguards,
- nature center,
- · more than 16 miles of hiking/skiing trails, and
- picnic shelters and areas.

During the summer, a beach pavilion provides:

- a shelter,
- snack bar,
- gift shop, and
- restrooms with outside showers.

The nature center has a library, bird observation room, children's activity corner, information desk, and exhibits about natural and cultural history. Private, public, and school programs are held year-round. Camping reservations can be made by calling 1-866-622-6746. There is a park entrance fee. For more information, contact:

#### **Indiana Dunes State Park**

1600 North 25 East Chesterton IN 46304 219-926-1952 www.IN.gov/dnr

#### **INDIANA DUNES STATE PARK**

Park Hours: 7 a.m. - 11 p.m. Office Hours: 8:30 a.m. - 4 p.m.

#### **Entrance Fees**

Daily: \$10.00 with out-of-state plates \$4.00 with IN plates, Mon.-Thurs. \$5.00 with IN plates, Fri.–Sun., holidays \$2.00 per day for walk-ins and bicyclists Annual entrance permits are available.

\$36.00 resident, \$46.00 non-resident

## Support the Park with Your Purchases









Eastern National provides quality educational products and services to the visitors to America's national parks.

Eastern National promotes understanding and support of the National Park Service by providing visitors with the information, materials, and experiences they need to fully understand and appreciate the importance of preserving and protecting America's national parks for future generations.

Eastern National, a non profit organization, donates a portion of its proceeds to Indiana Dunes National Lakeshore to support interpretive and educational activities and publications such as this edition of *The Singing* Sands.

### **Eastern National Bookstore**



A variety of educational items are available for purchase at Eastern National bookstore. The online store is at www.easternnational.org or www.eparks.com.

traversing the dunes and forest, another through time, or watch communities are replacing one Beach, even when the weather migrating waterfowl at Long There is much to do at West learn how plant and animal shelter, walk a marked trail is too cold for swimming. Grill a meal at the picnic

a food service area.

Lake in autumn and spring.



